

We claim:

1. A medical drape comprising:

5 a backing layer having a first surface and a second surface, where projecting from the first surface of the backing layer is an array of stems; wherein at least a portion of the exterior surface of the stems comprises an elastomeric material.

2. The medical drape of claim 1 wherein the stems are generally upstanding.

3. The medical drape of claim 1 wherein the elastomeric material is thermoplastic.

4. The medical drape of claim 1 wherein the Stainless Steel Static Coefficient of Friction when dry along at least a portion of the first surface is at least 0.6.

5. The medical drape of claim 1 wherein the Stainless Steel Static Coefficient of Friction when wet is within 20 percent of the Stainless Steel Static Coefficient of Friction when dry.

6. The medical drape of claim 1 wherein the Stainless Steel Static Coefficient of Friction when wet is within 80 percent of the Stainless Steel Static Coefficient of Friction when dry.

7. The medical drape of claim 1 wherein Stainless Steel Static Coefficient of Friction when wet is within 90 percent of the Stainless Steel Static Coefficient of Friction when dry.

Sub 12
cont'd

8. The medical drape of claim 1 wherein protruding from the second surface of the backing layer is a second array of stems.

5. 9. The medical drape of claim 1 further comprising a second backing layer adjacent to the second surface of the first backing layer, where projecting from the second backing layer is a second array of stems.

10. 10. The medical drape of claim 9 wherein at least a portion of the exterior surface of the stems of the second array comprises an elastomeric material.

11. The medical drape of claim 9 further comprising a reinforcing layer disposed between the first and second backing layers.

15 12. The medical drape of claim 11 wherein the reinforcing layer is a nonwoven scrim material.

13. The medical drape of claim 11 wherein the reinforcing layer is a woven scrim material.

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14. The medical drape of claim 1 further comprising a reinforcing layer adjacent to the second surface of the backing layer.

25 15. The medical drape of claim 14 wherein the reinforcing layer is a nonwoven scrim material.

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16. The medical drape of claim 14 wherein the reinforcing layer is a woven scrim material.

5 17. The medical drape of claim 14 further comprising a second backing layer adjacent to the reinforcing layer, where projecting from the second backing layer is a second array of stems.

18. The medical drape of claim 17 wherein at least a portion of the exterior surface
10 of the stems of the second array comprises an elastomeric material.

19. The medical drape of claim 1 further comprising micro-channels between the stems along at least a portion of the exterior of the first surface of the backing layer.

15 20. The medical drape of claim 1 wherein the density of the stems on the first surface of the backing layer is at least 15.5 stems/cm².

21. The medical drape of claim 1 wherein the aspect ratio of the stems on the first surface of the backing layer is at least 1.25. *Stem height / Stem diameter*

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22. The medical drape of claim 1 wherein the elastomeric material is selected from the group consisting of: anionic triblock copolymers; polyolefin-based thermoplastic elastomers; thermoplastic elastomers based on halogen-containing polyolefins; thermoplastic elastomers based on dynamically vulcanized elastomer-thermoplastic
25 blends; thermoplastic polyether ester and polyester based elastomers; thermoplastic elastomers based on polyamides or polyimides; ionomeric thermoplastic elastomers;

hydrogenated block copolymers in thermoplastic elastomer interpenetrating polymer networks; thermoplastic elastomers made by carbocationic polymerization; polymer blends containing styrene/hydrogenated butadiene block copolymers; polyacrylate-based thermoplastic elastomers; natural rubbers; butyl rubbers; EPDM rubbers; silicone rubbers; 5 polyisoprenes; polybutadienes; polyurethanes; ethylene/propylene/diene terpolymer elastomers; chloroprene rubbers; random and block styrene-butadiene copolymers; random and block styrene-isoprene copolymers; acrylonitrile-butadiene copolymers; and mixtures and copolymers thereof.

23. The medical drape of claim 1 wherein the elastomeric material further comprises at least one antioxidant.

24. A medical drape comprising:
a backing layer having a first surface and a second surface, where projecting
15 from the first surface of the backing layer is an array of stems;
wherein the Stainless Steel Static Coefficient of Friction dry along at least a portion of the first surface is at least 0.6.